

Darstellung und Strukturelle Charakterisierung von *cis*- und *trans*-Dicyclohexyl-3,3',4,4'-tetracarbonsäure-tetramethylestern

Preparation and Structural Characterization of *cis*- and *trans*-Tetramethyl Dicyclohexyl-3, 3', 4, 4'-tetracarboxylates

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Tetramethyl Dicyclohexyl-3,3',4,4'-tetracarboxylates

In the catalytic hydrogenation of tetramethyl biphenyl-3,3',4,4'-tetracarboxylate, tetramethyl dicyclohexyl-3,3',4,4'-tetracarboxylates were obtained, from which we have isolated *cis* isomers as crystals. The base-catalyzed isomerization afforded the *trans* isomers. The structure of the products isolated was determined by single-crystal x-ray diffraction, which clearly reveals the axial and equatorial positions of the methoxycarbonyl group. The structures in solution are supported by ^1H and ^{13}C NMR data, and also by two-dimensional COSY techniques.